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December 8, 1845.

SIR WM. R. HAMILTON, LL.D., President, in the
Chair.

The President made a communication on some new applications of Quaternions.—See *Appendix*, No. V.

DONATIONS.

Registrum Prioratus Omnium Sanctorum juxta Dublin. Edited, for the Irish Archæological Society, by the Rev. Richard Butler. Presented by the Society.

Transactions of the Institution of Civil Engineers of Ireland. Vol. I. Presented by the Secretary, Thomas Oldham, Esq.

Memoires de l'Academie Imperiale des Sciences de St. Petersbourg. 6me serie, viz.: *Science Naturelles.* Tome IVme, 6me Livraison. *Divers Savans.* Tome IVme, 6me Livraison. *Recueil des Actes de la Seance Publique de l'Academie Imperiale des Sciences de St. Petersbourg; tenue le 29 Dec. 1844; et Science Politique.* Tome V., Livr. 5. Presented by the Academy.

Memorie de la Reale Accademia delle Scienze di Torino. Tome XXXIX. (1836). Presented by the Academy.

Proceedings of the Geological Society of London. Vol. IV. Part 3, No. 104. Presented by the Society.

Flora Batava. Nos. 137, 138. Presented by the King of Holland.

Several Iron Swords, and other Weapons, found near Kilmainham. Presented by the Directors of the Great Southern and Western Railroad.

A large Collection of Iron Swords, Bosses of Shields, Spears, and other Weapons, some Fibulæ made of Bronze and Silver, all found in the Cuttings of the Great Southern and Western Railroad, near Kilmainham. Presented by Colonel Napier, Deputy Adjutant-General.